

Attorney's Docket No. 42P15761

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 07 2007

On Re Application of: Mark J. Buxton, et al.

Application No. 10/611,379

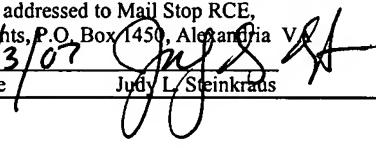
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Examiner: Malzahn, David H.

Art Unit: 2193

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the appropriate paragraph):

37 C.F.R. §1.97(b).

37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:

A statement pursuant to 37 C.F.R. §1.97(e) or

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(1) A statement pursuant to 37 C.F.R. §1.97(e); and

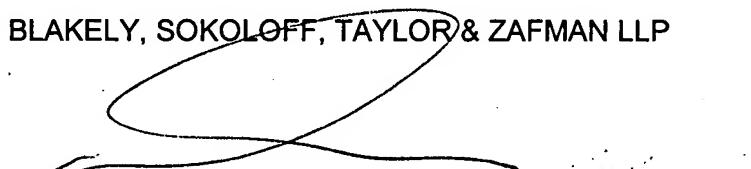
(2) A check for \$180.00 for the fee under 37 C.F.R. §1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 5/3, 2007


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1

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Complete if Known	
Application Number	10/611,379
Filing Date	06/30/2003
First Named Inventor:	Buxton, et al.
Art Unit	2193
Examiner Name	Malzahn, David H.

Attorney Docket Number 42P15761

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)			
	us-	4,841,468	06-1989	Miller et al.	
	us-	4,982,352	01-1991	Taylor et al.	
		5,781,457	07-1998	Cohen et al.	
	us-	5,969,975	10-1999	Glass et al.	
		6,115,812 A	09-05-2000	Abdallah et al.	
	us-	6,167,419	12-2000	Saishi et al.	
	us-	6,167,420	12-2000	Saishi et al.	
		6,211,892 B1	04-03-2001	Huff et al.	
		6,370,559	04-2002	Hoffman	
		6,430,684	08-2002	Bosshart	
	us-	6,457,036	09-2002	Sloan	
		6,745,319 B1	06-01-2004	Balmer et al.	
	us-	6,839,728	01-2005	Pitsianis et al.	
		2001/0016902 A1	08-23-2001	Abdallah et al.	
	us-	2002/0159529	10-2002	Wang et al.	
	us-	2002/0172287	11-2002	Kim	
	us-	2003/0231711	12-2003	Zhang et al.	
	us-	2004/0098556	05-2004	Buxton et al.	
	us-	2004/0098567	05-2004	Hansen et al.	
	us-	2004/0205323	10-2004	Hansen et al.	
	us-	2005/0108312	05-2005	Chen et al.	
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<p>Substitute for Form 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
				Application Number	10/611,379
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				First Named Inventor:	Buxton, et al.
				Art Unit	2193
Examiner Name	David H. Malzahn				
Sheet	2	of	8	Attorney Docket Number	42P15761

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		AVARO, Olivier, et al., <i>MPEG-4 Systems Overview and Architecture</i> , woody.imag.fr/MPEG4/syssite/syppub/docs/tutorial/, 28/05/98, pp. 1-71 plus Yahoo site ref.	
		BIERLING, M., <i>Displacement Estimation by Hierarchical Blockmatching</i> , SPIE, Vol. 1001, Visual Communications and Image Processing, May 1998, pp. 942-951.	
		CHAN, Y.L and W.C. Siu, <i>Adaptive Multiple-Candidate Hierarchical Search for Block Matching Algorithm</i> , IEE Electronics Letters, Vol. 31, No. 19, Sept. 14, 1995, pp. 1637-1639.	
		CHAN, Yui-Lam and Wan-Chi Siu, <i>New Adaptive Pixel Decimation for Block Motion Vector Estimation</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol. 6, No. 1, Feb. 1996, pp. 113-118.	
		CHEN, Liang-Gee, Wai-Ting Chen, Yeu-Shen Jehng Tzi-Dar Chui, <i>An Efficient Parallel Motion Estimation Algorithm for Digital Image Processing</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol. 1, No. 4, Dec. 1991, pp. 378-384.	
		CHENG, K. W., S.C. Chan, <i>Fast Block Matching Algorithms for Motion Estimation</i> , ICASSP96, 1996, pp. 2318ff.	
		CORBAL, Jesus, et al., <i>DLP+TLP Processors for the Next Generation of Media Workloads</i> , 0-7695-1019-1/01, IEEE, 2001, pp. 219-228.	
		DAY, Neil, Ed., <i>Introduction to MPEG-7 (v.3.0)</i> , International Organization for Standardization, ISO/IEC JTC1/SC29/WG11, Coding of Moving Pictures and Audio, #N4032, March 2001, pp. 1-10.	
		DIEFENDORFF, Keith, et al. <i>AltiVec Extension to PowerPC Accelerates Media Processing</i> , IEEE Publication No. 0272-1732/00, Copyright 2000 IEEE, pp. 85-95.	
		DUFAUX, Frederic, et al., <i>Efficient, Robust, and Fast Global Motion Estimation for Video Coding</i> , 1057-7149/00, IEEE, 2000, pp. 497-501.	
		ECKART, Stefan, Chad Fogg, <i>ISO/IEC MPEG-2 Software Video Codec</i> , SPIE Vol. 2419, Digital Video Compression: Algorithms and Technologies, 1995, San Jose, CA.	

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Art Unit	2193
Examiner Name	David H. Malzahn

Sheet 4 of 8

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		JU, John C.-H., et al., <i>A Fast Rate-Optimized Motion Estimation Algorithm for Low-Bit-Rate Video Coding</i> , 1051-8215/99, IEEE, 1999, pp. 994-1002.	
		JUNG, Hae Mook, Duch Dong Hwang Coong Soo Park, Han Soo Kim, <i>An Annular Search Algorithm for Efficient Motion Estimation</i> , International Picture Coding Symposium, PCS96, 1996, pp. 171-174.	
		KAPPAGANTULA, S., K.R. Rao, <i>Motion Compensated Interframe Image Prediction</i> , IEEE Transactions on Communications, 33(9), Sept. 1985, pp. 1011-1015.	
		KIM, Joon-Seek, Rae-Hong Park, <i>A Fast Feature-Based Block Matching Algorithm Using Integral Projections</i> , IEEE Journal on Selected areas in communications, Vol.10, No.5, June 1992, pp. 968-971.	
		KIM, Michelle, Ed., <i>MPEG-4 Systems</i> , International Organization for Standardization, ISO/IEC JTC1/SC29/WG11, Coding of Moving Pictures and Audio, #N3383, June 2000, pp. 1-19.	
		KNEIP, Johannes, et al., <i>Applying and Implementing the MPEG-4 Multimedia Standard</i> , 0272-1732/99, IEEE, 1999, pp. 64-74.	
		KNEIP, J. (Johannes), et al., <i>The MPEG-4 Video Coding Standard—a VLSI Point of View</i> , IEEE Workshop on Signal Processing Systems (SIPS98), 8-10 Oct. 1998, pp. 43-52, A-1, A-2.	
		KOGA, J., et al., <i>Motion Compensated Interframe Coding for Video Conferencing</i> , Proceedings of the National Telecommunications Conference, 1981, pp. G5.3.1- 5.3.3.	
		KOENEN, Rob, Ed., <i>Overview of the MPEG-4 Standard</i> , International Organization for Standardization, ISO/IEC JTC1/SC29/WG11, Coding of Moving Pictures and Audio, #N4030, March 2001, pp. 1-69.	
		KUHN, P., <i>Algorithms, Complexity Analysis and VLSI Architectures for MPEG-4 Motion Estimation</i> , 1999 Kluwer Academic Publishers, Boston, pp. cover-vi, 15, 17-59, 107-109, 119-121, 147-167, and 189-204.	

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		KUHN, P., Stechle W., <i>Complexity Analysis of the Emerging MPEG-4 Standard as a Basis for VLSI Implementation</i> , vol. SPIE 3309 Visual Communications and Image Processing, San Jose, Jan. 1998, pp. 498-509.	
		LEE, Liang-Wei, Jhing-Fa Wang, Jau- Yien Lee, Jung-Dar Shie, <i>Dynamic Search-Window Adjustment and Interlaced Search Block-Matching Algorithm</i> , IEEE Transactions on circuits and systems for video technology, Vol. 3, No. 1, Feb. 1993, pp. 85-87.	
		LEE, W., Y. Kim, R.J. Gove, C.J. Read, <i>Media Station 5000: Integrating Video and Audio</i> , IEEE Multimedia, Vol. 1, No. 4, 1994, pp. 50-61.	
		LEE, Xiaobing, Ya-Qin Zhang, <i>A Fast Hierarchical Motion-Compensation Scheme for Video Coding Using Block-Feature Matching</i> , IEEE Transactions on Circuits and Systems for Video Technology, Vol. 6, No. 6, Dec. 1996, pp. 627-635.	
		LENGWEHASATIT, Krisda, et al., <i>A Novel Computationally Scalable Algorithm for Motion Estimation</i> , SPIE 3309 VCIP Visual Communications and Image processing, San Jose, CA, Jan. 1998, pp. 66-79.	
		LI, R., B. Zeng, M.L. Liu, <i>A New Three-Step Search Algorithm for Block Motion Estimation</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol. 4, No. 4, Aug. 1994, pp. 438-442.	
		LI, W., E. Salari, <i>Successive Elimination Algorithm for Motion Estimation</i> , IEEE Trans. Image Processing, Vol. 4, Jan. 1995, pp. 105-107.	
		LIANG, Jie, et al., <i>Region-Based Video Coding with Embedded Zero-Trees</i> , 1068-0314/97, IEEE, 1997, p. 449.	
		LIU, B., A. Zaccarin, <i>New Fast Algorithms for the Estimation of Block Motion Vectors</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol.3, No.2, April 1993, pp. 148-157.	
		LIU, Lurng-Kuo, Ephraim Feig, <i>A Block-Based Gradient Descent Search Algorithm for Block-Based Motion Estimation in Video Coding</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol. 6, No. 4, Aug. 1996, pp. 419-422.	

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Sheet 3 of 8

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		EDIRISINGHE, E.A., et al., <i>Shape Adaptive Padding for MPEG-4</i> , 0098 3063/00, IEEE, 2000, pp. 514-520.	
		FENG, J., Lo, K. T. Mehrpour, H. Karbowiak, A.E, <i>Adaptive Block-Matching Motion Estimation Algorithm for Video Coding</i> , IEE Electronics Letters, Vol. 31, No. 18, 1995, pp. 1542-1543.	
		FURHT, Botho, Joshua Greenberg, Raymond Westwater, <i>Motion Estimation Algorithm for Video Compression</i> , Kluwer Academic Publishers, Boston, 1997, pp. cover-vi, 11, 49-95.	
		GHANBARI, M., <i>The Cross-Search Algorithm for Motion Estimation</i> , IEEE Transactions on Communications, Vol. 38, No. 7, Jul. 1990, pp. 950-953.	
		HE, Zhongli, M.L. Liou, <i>A High Performance Fast Search Algorithm for Block Matching Motion Estimation</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol. 7, No. 5, Oct. 1997, pp. 826-828.	
		HE, Zhong-Li, M.L. Liou, <i>Design of Fast Motion Estimation Algorithm based on Hardware Consideration</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol.7, No.5, Oct. 1997, pp. 819-823.	
		HEISING, G., et al., <i>MoMuSys: MPEG-4 Version 2 Video Reference Software Package</i> , AC098/HHI/WP5.1/DS/P/049/B1, 1998, Abstract and pp. 1-8.	
		INTEL CORPORATION, <i>Block-Matching in Motion Estimation Algorithms Using Streaming SIMD Extensions 2 (SSE2)</i> , Vers. 2.0 9/22/00, Order No. 248605-001, pp. 1-13, A-1, A-2.	
		INTERNATIONAL ORGANISATION FOR STANDARDISATION, <i>Optimization Model, Version 2.0</i> , ISO/IEC JTC1/SC29/WG11, Coding of Moving Pictures and Audio, #N3675, October 2000, 12 pp.	
		INTERNATIONAL ORGANISATION FOR STANDARDISATION, <i>New MPEG-4 Profiles Under Consideration</i> , ISO/IEC JTC1/SC29/WG11, Coding of Moving Pictures and Audio, #N3932, January 2001, pp. 1-35.	
		JAIN, J., A. Jain, <i>Displacement Measurement and its Application in Interframe Image Coding</i> , IEEE Transactions on Communications, Vol. 29, No. 12, Dec. 1981, pp. 1799-1808.	

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		MO, Hyeon-Cheol, et al., <i>A High-Speed Pattern Decoder in MPEG-4 Padding Block Hardware Accelerator</i> , 0-7803-6685-9/01, IEEE, 2001, pp. II-197 – II-200.	
		MOSCHETTI, F., et al., <i>About Macroblock Subsampling for Motion Estimation on IA-64</i> , Proc. of 2001 IEEE Int'l. Conf. on Multimedia and Expo ((ICME 2001), Tokyo, Japan, August 2001, 4 pp.	
		MOSCHETTI, F., et al., <i>A Fast Block Matching for SIMD Processors Using Subsampling</i> , IEEE #0-7803-5482-6/99, pp. IV-321 – IV-324.	
		NAM, Kwon Moon, Joon-Seek Kim, Rae-Hong Park, Young Serk Shim, <i>A Fast Hierarchical Motion Vector Estimation Algorithm Using Mean Pyramid</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol. 5, No. 4, Aug. 1995, pp. 344-351.	
		NETRAVALI, A., B. Haskell, <i>Digital Pictures Representation and Compression</i> , New York, Plenum, 1988, pp. cover-xv, 334-340, 537-542, and 354-355.	
		PIRSCH, Peter, Nicolas Demassieux, Winfried Gehrke, <i>VLSI Architectures for Video Compression - A Survey</i> , Proceedings of the IEEE, Vol. 83, No. 2, Feb. 1995, pp. 220-246.	
		PO, Lai-Man, Wing-Chung Ma. <i>A Novel Four-Step Search Algorithm for Fast Blockmatching</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol. 6, No. 3, Jun. 1996, pp. 313-317.	
		PURI, A., H.M. Hang, D.L. Schilling, <i>An Efficient Blockmatching Algorithm for Motion Compensated Coding</i> , Proc. IEEE ICASSP, 1987, pp. 2.4.1-25.4.4.	
		RAGSDALE, Gary L., et al, <i>Relationships of Popular Transmission Characteristics to Perceived Quality for Digital Video Over ATM</i> , National Communications System, Technical Information Bulletin 99-2, January 1999, 64 pp.	
		RAMKISHOR, K., et al., <i>Real Time Implementation of MPEG-4 Video Decoder on ARM7TDMI</i> , Proc. of 2001 Int'l. Symposium on Intelligent Multimedia, Video and Speech Processing, May 2-4, 2001, pp. 522-526.	
		SHI, Y.Q., X. Xia, <i>A Thresholding Multiresolution Block Matching Algorithm</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol. 7, No. 2, April 1997, pp. 437-440.	

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Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 7 of 8

Complete if Known

Application Number	10/611,379
Filing Date	06/30/2003
First Named Inventor:	Buxton, et al.
Art Unit	2193
Examiner Name	David H. Malzahn

Attorney Docket Number 42P15761

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		SIKORA, Thomas, <i>MPEG Digital Video Coding Standards</i> , Preprint from Digital Consumer Electronics Handbook, 1 st Ed., McGraw-Hill Book Co., Ch. 9, pp. 1-43.	
		SIKORA, Thomas, <i>MPEG-1 and MPEG-2 Digital Video Coding Standards</i> , Preprint from Digital Consumer Electronics Handbook, 1 st Ed., McGraw-Hill Book Co., pp. 1-43.	
		SIKORA, Thomas, <i>The Structure of the MPEG-4 Video Coding Algorithm</i> , Preprint from Digital Consumer Electronics Handbook, 1 st Ed., McGraw-Hill Book Co., pp. 1-16.	
		SONG, Byung Cheol, Jong Beom Ra, <i>A Hierarchical Block Matching Algorithm Using Partial Distortion Criteria</i> , SPIE 3309 VCIP Visual Communications and Image Processing, 1998, San Jose, CA, pp. 88-95.	
		SRINIVASAN, Ram and K.R. Rao, <i>Predictive Coding Based on Efficient Motion Estimation</i> , IEEE Transactions on Circuits and Systems on Video Technology, Vol. 33, No. 8, Aug. 1985, pp. 888-896.	
		STOLBERG, H.-J., et al., <i>The M-Pire MPEG-4 Codec DSP and Its Macroblock Engine</i> , 0-7803-548206/99, IEEE, 2000, pp. II-192-II-195.	
		THAM, Jo Yew, et al., <i>Transactions Letters: A Novel Unrestricted Center-Biased Diamond Search Algorithm for Block Motion Estimation</i> , IEEE, 1051-8215/98, 1998, pp. 369-377.	
		van der SCHAAR, M., et al., <i>Near-Lossless Complexity-Scalable Embedded Compression Algorithm for Cost Reduction in DTV Receivers</i> , 0098 3063/00, IEEE, 2000, pp. 923-933.	
		WANG, Chung-Neng, et al., <i>Improved MPEG-4 Visual Texture Coding Using Double Transform Coding</i> , 0-7803-6685-9/01, IEEE, 2001, pp. V-227 – V-230.	
		WESTERINK, P. H., et al., <i>Two-Pass MPEG02 Variable-Bit-Rate Encoding</i> , IBM J. Res. Develop, Vol. 43, No. 4, July 1999, pp. 471-488.	

Examiner Signature		Date Considered
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